# Key Instant Recall Facts 

YEAR 5 - Spring 2

## I can recall square numbers up to $\mathbf{1 2}^{\mathbf{2}}$ and their square roots

By the end of this half term, children should know the following facts. The aim is for them to recall these facts instantly.

## What could this look like?

| $1^{2}=1 \times 1=1$ | $\sqrt{ } 1=1$ |
| :--- | :--- |
| $2^{2}=2 \times 2=4$ | $\sqrt{ } 4=2$ |
| $3^{2}=3 \times 3=9$ | $\sqrt{ } 9=3$ |
| $4^{2}=4 \times 4=16$ | $\sqrt{ } 16=4$ |
| $5^{2}=5 \times 5=25$ | $\sqrt{ } 25=5$ |
| $6^{2}=6 \times 6=36$ | $\sqrt{ } 36=6$ |
| $7^{2}=7 \times 7=49$ | $\sqrt{ } 49=7$ |
| $8^{2}=8 \times 8=64$ | $\sqrt{ } 64=8$ |
| $9^{2}=9 \times 9=81$ | $\sqrt{ } 81=9$ |
| $10^{2}=10 \times 10=100$ | $\sqrt{ } 100=10$ |
| $11^{2}=11 \times 11=121$ | $\sqrt{ } 121=11$ |
| $12^{2}=12 \times 12=144$ | $\sqrt{ } 144=12$ |


| $\times$ | 1 | 3 | 1 | 4 | 5 | * | 1 | 1 | $\dagger$ | 10 | 11 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 3 | 1 | 4 | 5 | 6 | 1 | 5 | - | 10 | 11 | 12 |
| $z$ | 2 | $+$ | $\stackrel{1}{1}$ | 1 | 10 | 12 | 14 | 14 | 18 | 20 | 22 | 24 |
| 1 | 3 | 8 | , | 12 | 15 | 18 | 21 | 34 | 37 | 3 | 13 | 14 |
| 4 | 4 | 3 | 12 | 15 | 20 | 24 | 24 | 12 | 36 | 40 | 4 | 4 |
| 5 | 3 | 30 | 15 | 20 | 2 | 30 | 3 | * | 4) | 50 | 45 | te |
| $\pm$ | 4 | 12 | 14 | J* | 30 | in | 47 | st | 54 | *0 | 40 | $n$ |
| $t$ | 7 | 14 | $\pi$ | 27 | 15 | 42 | * | 4 | 6) | 10 | r | * 4 |
| $\pm$ | 8 | 15 | 34 | 12 | 40 | 4 | 54 | 4 | $n$ | 30 | 48 | * |
| $\pm$ | - | 18 | 1 | It | 45 | 34 | \&) | 72 | 81 | * 0 | * | 108 |
| 14 | 10 | 20 | 30 | *) | so | 40 | 70 | 4c | * | 100 | 328 | 13 |
| 11 | 4 | $n$ | 37 | 4 | 55 | st | rt | 88 | W\% | 120 | 121 | 17 |
| 12 | 42 | 34 | 13 | 48 | 60 | 7 | 64 | W | Stis | 120 | 132 | 144 |



## Key Vocabulary

What is 7 squared?
What is 7 multiplied by itself?

What is the square root of 144?

Is 30 a square number?

## Things to Try

Around the clock- think of a clock face. What are each of the numbers a square root of? E.g. 12: 12 is the square root of 144 . What are each of the numbers squared?

Dice roll- whatever the number lands on, square it
Cards- turn a card over, square it and call out the answer. Can you say the answer quicker than your partner?

## Useful Websites:

https://www.topmarks.co.uk/maths-games/hit-the-button
https://mathszone.co.uk/using-applying/puzzles-and-logic-problems/splat-square100-primary-games-3/
https://wordwall.net/resource/9919606/maths/whack-square

